10. Sticks into Polygons

Program Name: Sticks_Polygon.java **Input File: stickspolygon.dat**

You are given a box of sticks of different lengths. What is the maximum number that you can use to form a polygon? The polygon's area has to be strictly > 0.

Input
The first line has the number of testcases, `T`. 2*`T` lines follow, two lines for each testcase.
The first line of each testcase line contains `N`, the number of sticks you have. The next line contains `N` integers separated by spaces, the length of each stick.

Output
For each testcase, print out the maximum number of sticks that can be used to form a polygon of area > 0. If no polygon can be formed, print `-1`.

Constraints
```
1 <= T <= 10
3 <= N <= 20
1 <= Lengths <= 20
```

Example Input File
```
3
3
1 2 3
4
4 2 1 3
4
1 2 8 2
```

Example Output to Screen
```
-1
4
3
```

Explanation for the third testcase
A triangle can be formed from sticks of length 1, 2, and 2, excluding the stick of length 8.